NC/QC/YD-W-1/2018-19/BJ-C1 Date: 14-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**167 min**	Shall not be less than 30 min
2	Final setting time	**278 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.03 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.18 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.21 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Proprietor

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NC/QC/YD-W-1/2018-19/BJ-CB3A

Date: 26-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	26-03-19	28	22500	505	22.44	**22.67**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	515	22.89	

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NC/QC/YD-W-1/2018-19/BJ-K2 Date: 05-03-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.40	23.65	**22.54**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.29	22.21		
3	003	3.26	21.78		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.96	**5.07**
2	002	5.10	
3	003	5.16	

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NC/QC/DD-NG/2018-19/W1 Date: 21-03-2019

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.66	95-100
26.50	---	-
22.40	69.33	60-80
11.20	52.61	40-60
4.75	32.88	25-40
2.36	21.29	15-30
0.600	16.25	8-22
0.075	3.89	0-5

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